

CLAIMS

What is claimed is:

1. A pregabalin lactose conjugate, or a pharmaceutically acceptable salt, ester, amide, and prodrug thereof.

- 5 2. A compound according to Claim 1 selected from:

(S)-1-[3,4-Dihydroxy-6-hydroxymethyl-5-(3,4,5-trihydroxymethyl-tetrahydro-pyran-2-yloxy)-tetrahydro-pyran-2-yl]-4-isobutyl-pyrrolidin-2-one;

10 (S)-4-Isobutyl-1-(2,3,4,5-tetrahydroxy-tetrahydro-pyran-2-ylmethyl)-pyrrolidin-2-one;

(S)-1-[2,3-Dihydroxy-5-hydroxymethyl-4-(3,4,5-trihydroxy-6-hydroxymethyl-tetrahydro-pyran-2-yloxy)-tetrahydro-furan-2-ylmethyl]-4-isobutyl-pyrrolidin-2-one;

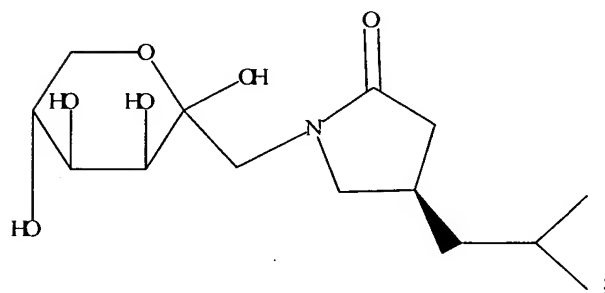
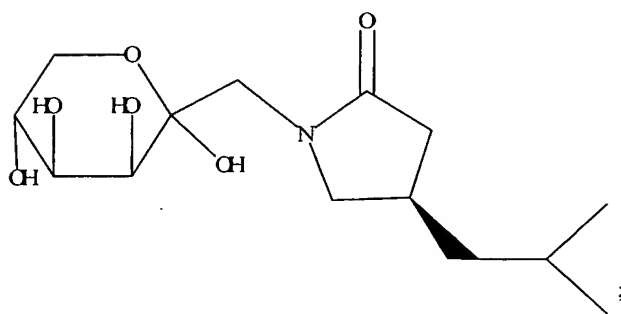
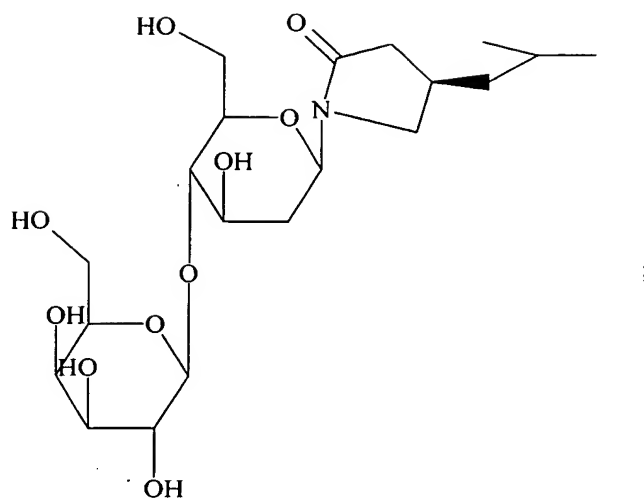
15 (S)-4-Isobutyl-1-[2,3,5-trihydroxy-4-(3,4,5-trihydroxy-6-hydroxymethyl-tetrahydro-pyran-2-yloxy)-tetrahydro-pyran-2-ylmethyl]-pyrrolidin-2-one; and

(S)-4-Isobutyl-1-(2,3,4-trihydroxy-5-hydroxymethyl-tetrahydro-furan-2-ylmethyl)-pyrrolidin-2-one.

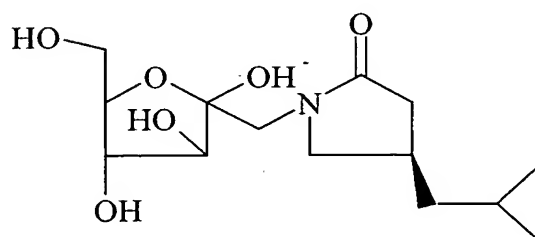
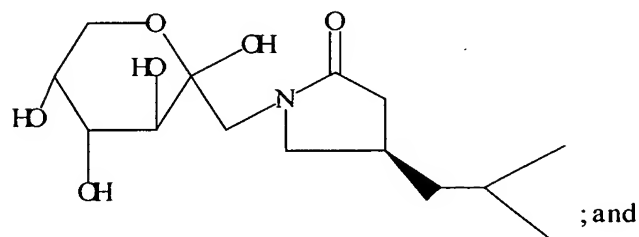
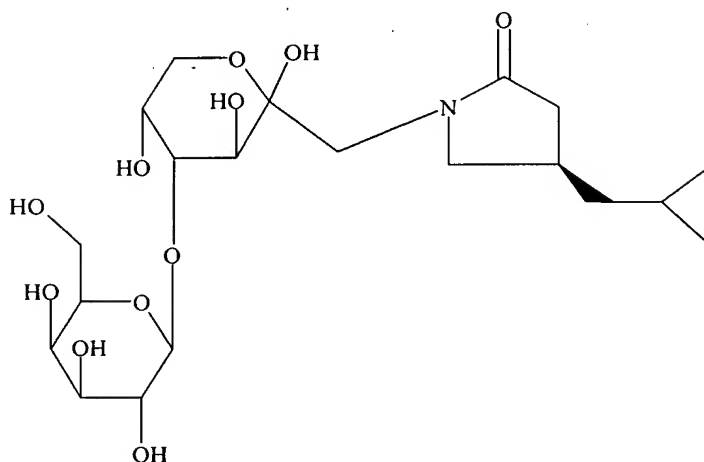
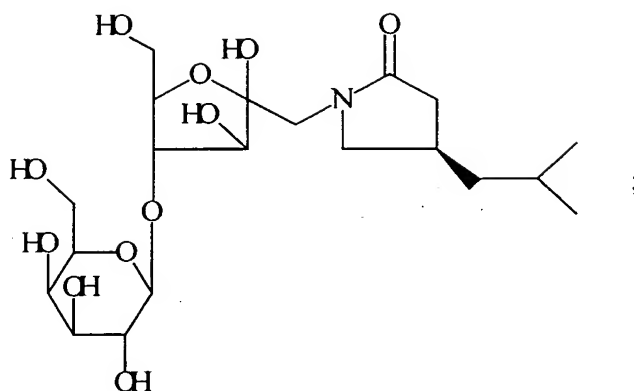
3. A compound according to Claim 2 selected from:

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- 5 4. A pharmaceutical formulation comprising at least one compound of Claim 1 and a pharmaceutically acceptable carrier, excipient, or diluent thereof.

5. A method for treating a subject having a central nervous system disorder or disease by administering to the subject a pharmaceutically effective amount of a compound of Claim 1.

5 6. A method according to Claim 5 wherein the central nervous system disorder or disease is depression, seizure, anxiety, pain, sleep disorder, consumptive disorder, psychosis, dyskinesia, Huntington's disease, or Parkinson's disease.

10 7. A method according to Claim 5 wherein the compound is selected from:
(S)-1-[3,4-Dihydroxy-6-hydroxymethyl-5-(3,4,5-trihydroxymethyl-tetrahydro-pyran-2-yloxy)-tetrahydro-pyran-2-yl]-4-isobutyl-pyrrolidin-2-one;

(S)-4-Isobutyl-1-(2,3,4,5-tetrahydroxy-tetrahydro-pyran-2-ylmethyl)-pyrrolidin-2-one;

15 (S)-1-[2,3-Dihydroxy-5-hydroxymethyl-4-(3,4,5-trihydroxy-6-hydroxymethyl-tetrahydro-pyran-2-yloxy)-tetrahydro-furan-2-ylmethyl]-4-isobutyl-pyrrolidin-2-one;

(S)-4-Isobutyl-1-[2,3,5-trihydroxy-4-(3,4,5-trihydroxy-6-hydroxymethyl-tetrahydro-pyran-2-yloxy)-tetrahydro-pyran-2-ylmethyl]-pyrrolidin-2-one; and

20 (S)-4-Isobutyl-1-(2,3,4-trihydroxy-5-hydroxymethyl-tetrahydro-furan-2-ylmethyl)-pyrrolidin-2-one.

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